_ Sheet 1 of 3

Rev. 7-80		U.S. Department of C Patent and Trademark	Office		Atty. Docket No. PO8027/MD-03-32	Serial No. To Be Assigned				
Lis		RIOR ART CITED BY Several Sheets If Nec		ANT	Applicant Robert A. Pyles et al					
•	(030	Several Silests ii Nec	935ar y)		Filing Date	al				
		·			Herewith					
EVAMINED	·	r		U.S. PATE	NT DOCUMENTS					
EXAMINER INITIAL DOCUMENT NUMBER			DATE	NAME	CLASS	SUBCLASS	IF AP	PRO- ATE		
MD	AA	3,043,709		07/10/62	Amborski	117	7			
	AB	3,297,462		01/10/67	Fanning	117	33.3	_		
	AC	3,309,220		03/14/67	Osteen	. 117	33.3			
	AD	3,382,183		05/07/68	Donoian et al	252	300			
	AE	AE 3,519,462		07/07/70	Bristol et al	117	33.3			
	AF	3,617,330		11/02/71	Peilstocker	117	33.3			
	AG	AG 3,892,889		07/01/75	Cohnen et al	427	160			
	AH	4,126,660		11/21/78	Lempkowicz et al	264	101			
\ /	, Al 4,146,658			03/27/79	Humphrey	427	160			
<u> </u>	AJ	AJ 4,284,729		08/18/81	Cross et al	521	158			
MD	AK	4,323,597		04/06/82	Olson	427	160			
	1		FO	REIGN PA	TENT DOCUMENT	S				
	DOG	CUMENT NUMBER	DAT	E	COUNTRY	CLASS	SUBCLASS	TRANSL	ATION	
								Yes	No*	
AL										
AM	<u> </u>									
AN									<u> </u>	
AO								<u> </u>	ļ	
AP		071150 00100			· · · · · · · · · · · · · · · · · · ·					
		OTHER PRIOR	ART (Including A	outhor, Title, Date, Po	ertinent Pages,	, Etc.)			
AR								-		
AS										
										
AT EXAMINER		/Matthew Dan	iola/		DATE CONSIDER	ED 10/0	2/2006			
YAMINED IS:	1 if =0.6=	-	-	a4 a4a4' = = 1		12/2	2/2006		_	
not considered.	include	copy of this form with r	next comi	munication to	in conformance with MPE applicant.	:P 609: Draw line (inrough if not in c	ontormance	and	

Rev. 7-80	ST OF P	Patent and Trademark PRIOR ART CITED BY	ANT		Arty. Docket No. PO8027/MD-03-32 Applicant Serial No. To Be Assigned						
		Sev ral Sheets If Nec				Robert A. Pyles et a	al_				
	_					Filing Date Herewith			Group		
				U.S.	PATE	NT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUM	BER	DA	NTE .	NAME		CLASS	SUBCLASS	IF A	G DATE PPRO- NATE
MD	AA	4,349,607		09/14	/82	Ching		428	412		
	AB	4,390,676		06/28	/83	Loshaek	_	526	313		
EXAMINER INITIAL MD AA AB AC AD AF AG AH AI AJ MD AK	AC	4,535,104		08/13	/85	Pyles		524	91		
	AD	4,589,884		05/20/86		Gilpatrick		8	481		
	AE	4,640,690	40,690		/87	Baumgartner et al		8	506		
	AF	4,792,465		12/20	/88	Silbermann et al		427	160		
	AG	4,798,427		01/17	/89	Sear	4	350	1.1		
	AMINER NITIAL MD AB AC AD AB AC AD AB AF AG AH AI AJ MD AK AN AO AP	4,812,141	03/14/89		/89	Baumgartner et al		8	506		
	Al	5,321,441		06/14	/94	Osterlund	_ -	351	44		
<u> </u>	LA L	5,756,010		05/26	/98	Appell et al	4	252	589	- -	
MD	AK	5,851,585	E	12/22		Gupta et al		427	162		
	Ι			JAEIG	NPA	TENT DOCUMENTS		T	<u> </u>	ı	
	AH 4,812,141 AI 5,321,441 AJ 5,756,010 AK 5,851,585		DA	TE		COUNTRY		CLASS	SUBCLASS	TRANS	LATION No*
AL								ŀ			
AM						,					
AN						·					
AO	<u> </u>					····		.			
AP .								<u> </u>			<u> </u>
		OTHER PRIOR	ART	(includ	ding A	uthor, Title, Date, Pe	ertin	ent Pages,	Etc.)		
AR											
AS											
	\vdash										

DATE CONSIDERED

12/22/2006

Sh et 2 of 3

Neither English Language Equivalent nor an English Language Translation is available.

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

AT

/Matthew Daniels/

EXAMINER

		OTHER PRIOR ART (Includi	ng Author, Title, Date, Pertine	ent Pages, Etc.)
	AR			
	AS			
	AT			
EXAMI		/Matthew Daniels/	DATE CONSIDERED	12/22/2006
not con	NER Initia sidered.	al if references considered, whether or not citation Include copy of this form with next communication	on is in conformance with MPEP 609 ion to applicant.	D: Draw line through if not in conformance and

Form PTO 1449 Rev. 7-80	•	U.S. Department of C Patent and Trademark		e	Atty. Docket No Serial No. PO-8027 / MD-03-032 10/733,657					
LIS	T OF P	RIOR ART CITED BY A Several Sheets If Nec	APPLIC	ANT						
	(USB	Several Sheets if Neci	essary)		Robert A. Pyles et al	Filing Date			TOO A	
					Applicant Robert A. Pyles et al Filing Date December 11, 2003 NT DOCUMENTS FILING DATE FILING DATE					
				U.S. PATE	NT DOCUMENTS			RADEM	ARK	
EXAMINER INITIAL	I I		DATE	NAME	CLASS	SUBCLASS	IF AF	DATE PPRO- IATE		
MD	0,733,343			5/11/2004	Pyles et ai	8	506			
MD	АВ	6,749,646	·	6/15/2004	Pyles et al	8	506			
	AC									
	AD									
	AE									
	AF									
	AG						·			
	АН									
	AI									
	AJ									
	AK									
	r		FO	REIGN PA	TENT DOCUMENTS					
	DOC	DOCUMENT NUMBER DAT		TE	COUNTRY	CLASS	SUBCLASS	TRANSL Yes	ATION No*	
AL								res	NO	
AM									T	
AN										
AO										
AP										
		OTHER PRIOR	ART ((Including A	uthor, Title, Date, Per	tinent Pages	s, Etc.)			
AR				·		'	· · · · · · · · · · · · · · · · · · ·			
										
AS							***	· · · · · · · · · · · · · · · · · · ·		
— AT										
EXAMINER	<u></u>	Matthew Daniel	a /		DATE CONSIDERED	12/22/	2006			
EXAMINER Initia	l if refe	rences considered, whe	ther or r	not citation is i	conformance with MPEP	14/24/		nformance	and	
not considered.	Include	copy of this form with r	ext com	munication to	applicant.					

Form Rev.	PTO 144 7-88 \ P US	ST OF P	U.S. Department of C Patent and Trademark RIOR ART CITED BY Averal Sheets If Nec	ommerce Office APPLICANT essary)	r	Atty. Docket No PO-8027/MD03-32 Applicant Robert A. Pyles et al Filing Date	PO-8027/MD03-32 10/733,657 Applicant Robert A. Pyles et al Filing Date Group				
B				U.	S. PATE	December 11, 2003 NT DOCUMENTS					
EX	DOCUMENT NUMBER					NAME	CLASS	SUBCLASS	IF AP	FILING DATE IF APPRO- PRIATE	
	• .	ĀĀ									
		АВ								_	
		AC									
		AD									
		AE					 				
		AF					<u> </u>		 		
		AG	· · · · · · · · · · · · · · · · · · ·						_		
		AH					<u></u>				
		AI									
		AJ AK							 		
				FOR	EIGN PA	TENT DOCUMENTS	1				
		DOCUMENT NUMBER DATE			COUNTRY	CLASS	SUBCLASS	TRANSL Yes	ATION No*		
MD	AL	02/442	258 A2	06/06/02	World	World Patent				<u> </u>	
MD	AM	03/083	3207 A1	10/09/03	World	World Patent					
MD	AN	00/143	325	03/16/00	World	World Patent		 			
MD	AO	1 213	320 A1	06/12/02	Europ	De .	_	<u> </u>		-	
	AP	<u> </u>	OTHER PRIOR	APT (In	oludina A	author, Title, Date, Per	inent Pages	Eta		<u> </u>	
Г	·	ТТ	OTHER PRIOR	ART (III	ciuding A	dulor, Tide, Date, Feri	ment rages	s, Etc.)			
	AR										
	AS										
	AT					-					
EXAN	MINER	/M	atthew Daniel	s/		DATE CONSIDERED	12/22	/2006	<u> </u>		
EXAN not co	MINER Init	ial if refer		ather or not	citation is i	n conformance with MPEP (09: Draw line	through if not in co	onformance	and	

								Sheet 1	of 1			
	PTO 1449		U.S. Department of Patent and Tradema	Compaço	BA E	Atty. Docket No.		Serial No.				
Rev.	7-80	T 05 D5	Patent and Tradema RIOR ART CITED B	rk Office	INT &	Po-8027/MD03-32						
1	us	i Ur Pr Rige S	Several Sheets If No	/ A	&	Applicant Robert A. Pyles et al				ŀ		
l		(000 0	JOYCIA: SILOGIS II IVO	iΔt	1 2 7 2006 g	Filing Date		Group				
						December 11, 2003		1733				
	·			13	U.S. PATE	T DOCUMENTS						
	AMINER			V	THAHE		<u> </u>		FILING			
1 11	NITIAL	1 1	DOCUMENT NU	MBER	U.S. PATE	NAME	CLASS	SUBCLASS	IF API	PRO-		
 		┼	· -				 	- 	1 131/2			
		I AA I										
		╂──┤							 			
		AB						·				
		AC										
		AD	•									
		 ^~	_									
		AE										
		امدا				1						
<u> </u>		AF							 			
		AG										
		1										
<u> </u>		AH			 				+			
		Al						 	-			
		LAJ										
		AK				••				ì		
<u> </u>		TW		FC	REIGN PA	TENT DOCUMENTS						
		ſ		**************************************								
		DOC	UMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSL			
									Yes	No*		
MD	AL	04-05	7977.	02/25/92	Japan (a	ibstract & translation attach.)			X			
	· · · · · · · · · · · · · · · · · · ·											
\vdash	AM	ļ						 				
	AN											
							1					
	AO											
	AP	<u> </u>					<u> </u>	<u> </u>		L		
		· · · · · ·	OTHER PRIC	OR ART	(Including A	uthor, Title, Date, Pertin	nent Pages	i, Etc.)				
					·· ·							
	AR											
	AS											
	AT				•							
EXA	MINER	/N	Matthew Danie	els/		DATE CONSIDERED	12/22/	2006				
EXA	MINER Initi	al if refe	rences considered. v	whether or	not citation is i	n conformance with MPEP 60		•	nformance	and		
not c	onsidered.	Include	copy of this form wit	h next con	nmunication to	applicant.						